



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Raulf M. Polichar et al.

Application No. 10/822,727

Filed: April 13, 2004

For: NEUTRON DETECTOR WITH
LAYERED THERMAL-
NEUTRON SCINTILLATOR
AND DUAL FUNCTION LIGHT
GUIDE AND THERMALIZING
MEDIA

Confirmation No.: 2863

Group Art Unit: 2878

Examiner: TBD

Atty Docket: 000479.00116

INFORMATION DISCLOSURE STATEMENT

RECEIVED
JUL 13 2004
TC 1700

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure under 37 CFR §§ 1.56 and 1.97-1.98, the documents listed on the attached Forms PTO/SB/08a and PTO/SB/08b are being brought to the attention of the Examiner in charge of the above-identified application.

The Examiner is respectfully requested to initial the space adjacent the document entries on Forms PTO/SB/08a and PTO/SB/08b and return a copy of the initialed Forms PTO/SB/08a and PTO/SB/08b to confirm that the documents have been considered and have been officially made of record in this application.

If the Examiner has any questions or wishes to discuss this application, the Examiner is invited to telephone the undersigned representative at the number set forth below.

Information Disclosure Statement
10/822,727

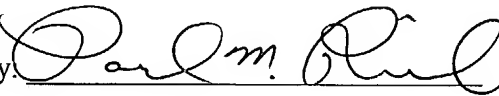
The accompanying Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. Therefore, no fee is believed due at this time. However, the Commissioner is authorized to charge any fees that may be required to our Deposit Account No. 19-0733.

Respectfully submitted,

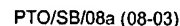
BANNER & WITCOFF, LTD.

Date: July 6, 2004

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By: 

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Substitute for form 1449A/

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(Use as many sheets as necessary)

| | | | |
|-------|---|----|---|
| Sheet | 1 | of | 2 |
|-------|---|----|---|

| | |
|-------------------------------|--------------------------|
| <i>Application Number</i> | 10/822,727 |
| <i>Filing Date</i> | 04/13/2004 |
| <i>First Named Inventor</i> | Raulf M. Polichar et al. |
| <i>Art Unit</i> | TBD |
| <i>Examiner Name</i> | TBD |
| <i>Attorney Docket Number</i> | 000479.00116 |

[illegible]

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Examiner
Signature

Date
Considered

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 2

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| | |
|------------------------|--------------------------|
| Application Number | 10/822,727 |
| Filing Date | 4/13/2004 |
| First Named Inventor | Raulf M. Polichar et al. |
| Art Unit | TBD |
| Examiner Name | TBD |
| Attorney Docket Number | 000479.00116 |

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|---------------------|-----------------------|--|----------------|
| | | Data Sheet 6 entitled "ZnS:Ag/LiF Screens, Neutron Imaging and Detection," Levy Hill Laboratories, one page | |
| | | "BC-704 and BC-705 For Neutron Radiography," Saint-Gobain, Crystals & Detectors, June 2002, two pages | |
| | | "Neutron Counting, Detector Applications Information Note," Saint-Gobain, Crystals & Detectors, two pages, March 2003 | |
| | | "BC-702 Thermal Neutron Detector," Saint-Gobain, Crystals & Detectors, June 2002, two pages | |
| | | KIM, G.N., LEE, Y.S., CHO, M.H., KANG, H.S., KO, I.S., and NAMKUNG, W., "Current Status of Pohang Neutron Facility," four pages | |
| | | "Neutron Radiography," printed 2/3/04 from web site, 5 pages | |
| | | SENGUTTUVAN, N., ISHII, M., SHIMOYAMA, M., KOBAYASHI, M., TSUTSUI, N., NIKL, M., DUSEK, M., SHIMIZU, H.M., OKU, T., ADACHI, T., SAKAI, K., and SUZUKI, J., "Crystal growth and luminescence properties of Li ₂ B ₄ O ₇ single crystals doped with Ce, In, Ni, Cu and Ti ions," Elsevier Science, pgs. 1-5 | |
| | | YAMANE, Y., URITANI, A., ISAWA, T., KARLSSON, J.K.-H., and PÁZIT, "Measurement of the thermal and fast neutron flux in a research reactor with a Li and Th loaded optical fibre detector," Elsevier Science, 1999, pgs. 403-409 | |
| | | RYZHIKOV, V., CHERNIKOV, V., NAGORNAYA, L., STARZHINSKIY, N., LISETSKAYA, E., and DANSHIN, E., "Oxide and Semiconductor Scintillators in Scintillelectronic Detectors for Detection of Neutrons," printed 2/3/04 from web site, eight pages | |
| | | FISHBINE, BRIAN, "A Modular Neutron Detector, Los Angeles National Laboratory, printed from web site 2/3/04, five pages | |
| | | "Lithium glass scintillators," Bicon, 1997, two pages | |

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| Examiner Signature | | Date Considered | |
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